

1

مراجعات النهائية جروب فريق الأصدقاء
المتخصص

fatoom

First Term



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1St. prep

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Theme 1 :Lesson 1: Green Technology



Green Technology: (sustainable technology or clean technology is based on technological tools that help protect the environment,

The role of green technology in Egypt:

Electric cars operate using batteries
utilizing electric vehicles as an alternative to traditional fuel-powered cars
decrease the emission of harmful substances from car exhausts and minimize fuel consumption.

Fields of using green technology:

Renewable Energy
Waste Recycling
Rationalization of energy consumption and responsible utilization
Water Treatment

1-Renewable Energy:

Bioenergy	geothermal	Hydropower	Wind energy	Solar energy
Using solar panels	Using wind turbines to	Using dams	Using geothermal heat	Using organic materials

2-Rationalization of energy consumption and responsible utilization:

Green Building
Utilizing energy-efficient
Smart transportation

3-Waste Recycling

rich compost to enhance soil fertility
Transforming organic waste into nutrient
The recycling of materials

4-Water Treatment

Repairing water leaks
drip irrigation
Purifying contaminated water

Benefits of green technology

Preservation of the environment from climate change "electric car"
Resource Conservation (Water – Electricity)

1

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Resource Conservation (Water – Electricity)



"Body sensors" on/off

Solar energy" technology relies on photovoltaic panels

Sensors are used in many tasks

regulating temperatures

operating the lights through various methods

detecting smoke from fires

Theme 1 :Lesson 2: Digital transformation and its importance in our daily lives

Digital Transformation:

*The combination of digital technology into all aspects of business to enhance workflow efficiency, lower costs, and innovate products and services.

* is a national project Citizens can obtain all their services through the internet and mobile applications.

The importance of digital transformation

1. Enhancing efficiency and productivity
2. Enhancing the quality of services and products offered to customers.
3. Enhancing sales and revenues
4. Sustaining competitiveness
5. Innovation and creativity
6. Enhancing decision-making
7. Minimizing energy and resource consumption.
8. Creating new employment opportunities

Digital transformation's Tools

-Workflow management tools

-Electronic payment tools

-Collaboration and communication tools

-e-learning tools

-AI and Machine Learning Tools

-Cloud Computing Tools

-Cyber Security Tools

Digital Egypt platform : is a governmental digital platform offering various electronic services to citizens.

Electronic payment methods such as:

1-Electronic payment cards

2-INSTAPAY application

2

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Collaboration and Communication Tools: A video conferencing application - similar to Zoom & Google Meet.

The relationship between green technology and digital transformation:

Digital transformation is closely linked to green technology with the aim of supporting sustainability.

They complement each other and contribute to achieving common goals.



Benefits of integrating green technology with digital transformation:

Speeding up the process of the digital transformation.

Enhancing the efficiency of green technology

Theme 1 :Lesson 3: Operating

Operating system definition:

Interface between user, hardware ,software Responsible for managing the hardware components and all software.

Helping the user to accomplish his various tasks easily and smoothly

Examples of modern electronic devices and smart devices, along with the operating systems used:

Personal computers Microsoft Windows	Mobile Devices iOS- Android	Servers Linux Microsoft Windows	Gaming Consoles Gaming Console Switch ... PlayStation
Wearable Devices smartwatches – fitness trackers use	Embedded Systems (ATM((POS)	Automotive Systems Modern cars and vehicles	
Industrial Control Systems Industrial control	webOS... Tizen... AndroidTV	Network Devices Routers, switches	

- Industrial control systems work on the following:

- Control and monitor the progress of industrial processes.
- Provide a safe environment for health and operational safety.



The program does this itself, as many programs come with their own removal or uninstallation command.

through the Control Panel, where the operating system helps you uninstall the program.

Note: Removing unused programs saves disk storage space and speeds up and eases the use of the device.

☐ **Installing a new device:**

→ In many cases, new devices include:-

* CD or DVD for setup that contains driver files and utility

Plug and Play Device Installation

The operating system runs a wizard program to find the driver for the new peripheral device.

Theme 1 :Lesson 5: E - Mail

Definition of Email:- It is a digital communication system used to send and receive messages over the Internet.

☐ It is one of the cloud computing tools used to share texts, files, images and other information.

☐ It is one of the most popular means of communication in the world.

☐ It is one of the indirect communication tools.

Components of E-mail address



Advantages of using email



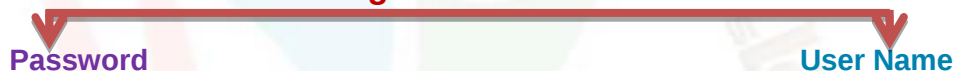
Drawbacks of using email



Providers of Email Services



Google Account:



A Google account also allows you to use other Google services such as:

YouTube ,GoogleDrive,GoogleDocs,GoogleMeet.

☐ Signout of your Gmail account

Click on your profile picture icon and then choose 'Sign out'

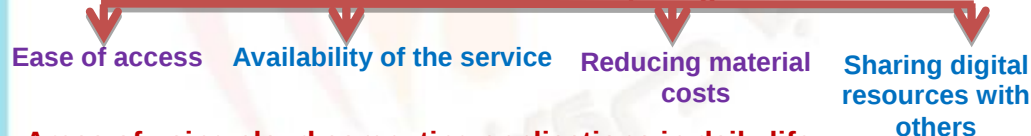
Theme 1 :Lesson 6: Cloud Computing

Cloud computing: It is a model for providing digital services over the Internet.

Such as:

- ▽ Cloud storage service or computer storage
- ▽ Software service (applications) over the Internet
- ▽ Electronic resource sharing service

Benefits of Cloud computing:



Areas of using cloud computing applications in daily life

Communication

- ☐ Email ☐ Social networking
- ☐ Messaging services

Producing projects by using:

- ☐ Word processing programs
- ☐ Spreadsheets

File storage services

- ☐ Drive to store, share ☐ Data backup

Education:

- ☐ E-learning platforms. ☐ Collaboration tools

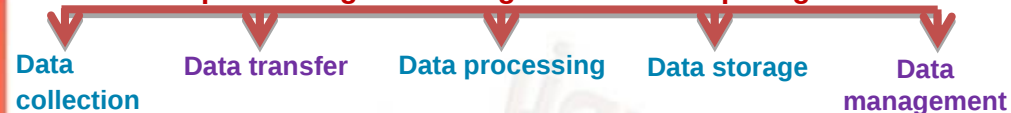
Entertainment:

Video streaming services - Video games - Cloud music services

Other areas:

☐ Online shopping ☐ Online banking ☐ Healthcare services

Data processing and storage in cloud computing:



Requirements to obtain cloud:



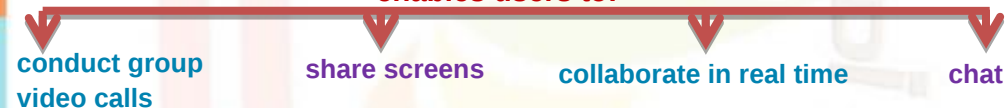
computing service providers:



Theme 1 :Lesson 7: Google Meet and Project

GoogleMeet:It is a video conferencing service developed by Google

enables users to:-



Going to the main page of the "Google Meet" application and follow these steps:

- 1.Click on the "New meeting" button.
- 2.Click on Start an instant meeting.
- 3.Click on the copy icon to share the meeting link.
- 4.Send the meeting link via one of the communication tools.

Create a meeting for a later time:

- ☐ Follow the same previous steps to create an instant meeting.
 - ☐ Click on "Create a meeting for a later time".
 - ☐ A small window will appear with a link to the session.
 - ☐ Copy the meeting link.
- Send the link to the people you want to hold the meeting with.

- ☐ General rules to follow during the meeting
- ☐ Raising your hand in the session to ask to speak
- ☐ Send messages in the session to participants
- ☐ Sharing the presentation with participants



DataBase:

A collection of data and information organized ,linked toeach other. It is similar to a libraryis used to store and retrieve information easilyand efficiently.

Information is stored and managed digitally

The importance of databases in our lives:

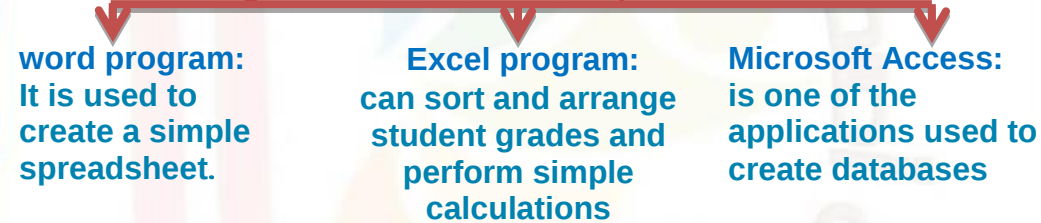


Big Data:

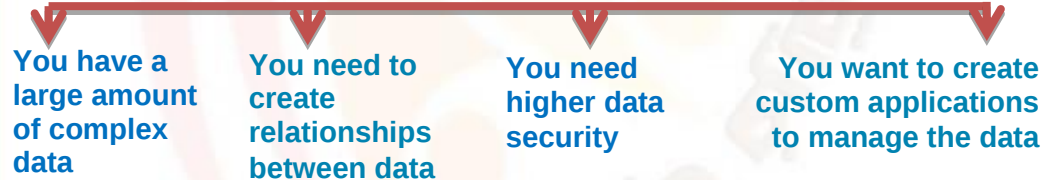
to very large and diverse sets of structured, unstructured and semi-structured data that continue to grow significantly overtime.

- Theamount of data is increasing and growing

Programs used to create a spreadsheet:-



We use Microsoft Access when:-



You can create a database by following these steps:

- 1- Open the software application Access.
- 2- ChooseBlank desktop database.

You can create a Table in Access by doing the following:

A- Table Design: To write the names of the table fields and specify their data type.

B- Datasheet View: To enter and display the table data.

A- Table Design:To choose the "Table Design" style, follow following steps:

- 1- Choose "CREATE".
- 2-Choose the "Table Design" .

B- Datasheet View To enter and view the table data.

- 1- Choose "View
- 2-Choose"Datasheet View"

□ Primary Key:

→ It is a field in a database table that is used to uniquely identify eachrecord in that table, and the primary key value is never repeated within the same table

Form:

It is a graphical interface designed specifically to interact with data stored in the database

- 1- Choose the Create tab.

- 2-Click Form:

Queries :

are tools used to obtain data from the database according to"specific criteria or conditions

- 2- Choose the Create tab

- 2-Click on Query Design

Execute the query:

- On the Design tab
 - Click on the Run icon in the Results group
- To add Criteria toa query, you must:
- Open the query in Design View.
 - Type the criterion or criteria in the Criteria row.